

Bovine urinary bladder tumors in Gilan province of Iran

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Gilan province is located in the north region of Iran. The most pastures at the province are contaminated with bracken fern and cattle may be grazing this plant freely. The target of this study was to assess histopathology of urinary bladder tumors in cattle of this region of Iran. 100 urinary bladder samples were examined and in 50 samples, there were 63 pathologic lesions which the lesions in 28 (44.45%) cases were tumoral and in 35 (55.55%) cases were not tumoral. Among tumoral lesions, 15 (53.57%) cases were epithelial tumors and 13 (46.43%) cases were mesenchymal tumors. At this study Carcinoma *in situ* was most prevalent (21.24%) malignant tumor and Fibromas were most prevalent (17.85%) benign tumor.

From 28 tumoral lesions, 15 (53.57%) cases were epithelial and 13 (46.43%) cases were mesenchymal origin. From 15 epithelial tumors, 12 (80%) cases were malignant and 3 (20%) cases were benign tumors. From 13 mesenchymal tumors, 3 (23.07%) cases were malignant and 10 (76.93%) cases were benign. Among 15 epithelial tumors, 3 (20%) cases were papillomas, 3 (20%) cases were transitional cell carcinomas (TCC), 1 (6.66%) case was adenocarcinoma, 2 (13.34%) cases were squamous cell carcinoma (SCC) and 6 (40%) cases were carcinoma *in situ* (CIS) were observed. From collected 13 mesenchymal tumors, 5 (38.46%) cases were fibromas, 3 (23.07%) cases were hemangiomas, 2 (15.38%) cases were leiomyomas, 1 (7.69%) case was hemangioendothelioma, 1 (7.69%) case was hemangiosarcoma, and 1 (7.69%) case was leiomyosarcoma. The prevalence of malignant tumors was determined for TCC 10.71%, adenocarcinoma 3.57%, SCC 7.14%, carcinoma *in situ* 21.42%, hemangioendothelioma 3.57%, hemangiosarcoma 3.57% and leiomyosarcoma 3.57%. The prevalence of benign tumors was determined for papillomas 10.71%, leiomyoma 7.14%, fibromas 17.85% and hemangiomas 10.71%. Although, we observed different types of tumors such as SCC along with hemangiosarcoma + fibroma and fibroma + leiomyoma + leiomyosarcoma or much cases of CIS with epithelial or mesenchymal tumors.

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